QC ABSTRACT

NAME OF WORK: Construction of Public toilet at Attur bus stop in Attur ward no-04 of yelahanka Satellite town sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.91	2	2
10	PCC(M10)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	56.89	10	10
11	RCC(M25)	Compressive Strength(7days and 28days)	3 sets /16-30 cum	22.03	6	6
12	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.84	2	2
13	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.16	2	2
14	RCC(M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	11.2	4	4
15	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
17	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-29-16** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-29-16** **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-09-29-16** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	218	218	1.5	98.5	90-100
3	20 mm	7289	7507	50.0	50.0	30-70
4	10 mm	5102	12609	84.1	15.9	10-35
5	4.75 mm	2185	14794	98.6	1.4	0-5
6	Pan	206	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-09-29-16** **Date: 05-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.18	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-09-29-16** **Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-09-29-16** **Date: 04-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 04-01-23

Lab ID	:	**CP-2023-09-29-16**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-29-16** **Date: 04-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-09-29-16** **Date: 03-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	02-01-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	572	689	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	581	691	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	594	705	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe550	16	1.581	608	718	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe550	20	2.476	624	728	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe550	25	3.472	636	741	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 06/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	09/01/2023	06/02/2023	150.43 X 150.91 X 150.74	22701	8.537	392.8	17.3	17.4
2	PCC	M15	09/01/2023	06/02/2023	150.29 X 150.21 X 150.29	22574	8.982	398.7	17.7	
3	PCC	M15	09/01/2023	06/02/2023	150.59 X 150.04 X 150.28	22595	8.976	389.6	17.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16**	**Date: 23/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division	
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-01-23	
Customer ID	:	Footing Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M25 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	23/01/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	16/01/2023	23/01/2023	150.23 X 150.80 X 150.89	22655	8.768	413.5	18.3	18.1
2	Footing Concrete	M25	16/01/2023	23/01/2023	150.20 X 150.95 X 150.63	22673	8.455	414.9	18.3	
3	Footing Concrete	M25	16/01/2023	23/01/2023	150.42 X 150.71 X 150.37	22671	8.923	403.8	17.8	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 07/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-23
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	31/01/2023	07/02/2023	150.11 X 150.65 X 150.31	22614	8.802	396.7	17.5	17.8
2	Plinth Beam Concrete	M25	31/01/2023	07/02/2023	150.78 X 150.70 X 150.81	22722	8.667	405.9	17.9	
3	Plinth Beam Concrete	M25	31/01/2023	07/02/2023	150.51 X 150.61 X 150.75	22668	8.559	407.6	18.0	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-29-16 **Date: 28/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-02-23

Customer ID : Sump Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M25	21/02/2023	28/02/2023	150.96 X 150.88 X 150 74	22777	8.260	406.8	17.9	17.8
2	Sump Concrete	M25	21/02/2023	28/02/2023	150.24 X 150 55 X 150 44	22618	8 325	407.2	18.0	
3	Sump Concrete	M25	21/02/2023	28/02/2023	150.27 X 150.33 X 150.68	22591	8 449	395.9	17 5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-29-16** **Date: 13/03/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	13/02/2023	13/03/2023	150.93 X 150.10 X 150.48	22655	8.251	643.7	28.4	28.5
2	Column Concrete	M25	13/02/2023	13/03/2023	150.62 X 150.93 X 150.46	22734	8.115	654.9	28.8	
3	Column Concrete	M25	13/02/2023	13/03/2023	150.92 X 150.72 X 150.60	22747	8.583	646.3	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 07/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-23
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	28/02/2023	07/03/2023	150.48 X 150.16 X 150.42	22597	8.867	407.6	18.0	18.1
2	Lintel Concrete	M25	28/02/2023	07/03/2023	150.90 X 150.21 X 150.32	22667	8.527	403.5	17.8	
3	Lintel Concrete	M25	28/02/2023	07/03/2023	150.25 X 150.26 X 150.08	22577	8.910	415.6	18.4	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16**	**Date: 28/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division	
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-03-23	
Customer ID	:	Lintel Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M25 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	28/03/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	28/02/2023	28/03/2023	150.77 X 150.92 X 150.36	22754	8.902	642.9	28.3	28.4
2	Lintel Concrete	M25	28/02/2023	28/03/2023	150.08 X 150.40 X 150.74	22572	8.130	641.5	28.4	
3	Lintel Concrete	M25	28/02/2023	28/03/2023	150.75 X 150.48 X 150.17	22686	8.150	645.4	28.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 23/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	16/03/2023	23/03/2023	150.23 X 150.42 X 150.61	22597	8.262	410.1	18.1	17.9
2	Roof Concrete	M25	16/03/2023	23/03/2023	150.89 X 150.56 X 150.77	22718	8.990	401.8	17.7	
3	Roof Concrete	M25	16/03/2023	23/03/2023	150.65 X 150.32 X 150.35	22646	8.717	404.1	17.8	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 13/04/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	16/03/2023	13/04/2023	150.14 X 150.17 X 150.37	22546	8.976	646.6	28.7	28.5
2	Roof Concrete	M25	16/03/2023	13/04/2023	150.00 X 150.25 X 150.35	22538	8.361	637.0	28.3	
3	Roof Concrete	M25	16/03/2023	13/04/2023	150.18 X 150.61 X 150.44	22619	8.670	646.1	28.6	

* The results obtained are satisfactory as per standard requirements

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-29-16** **Date: 23/03/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	16/03/2023	23/03/2023	150.70 X 150.48 X 150.02	22678	8.465	400.7	17.7	17.9
2	Roof Concrete	M25	16/03/2023	23/03/2023	150.28 X 150.19 X 150.00	22571	8.606	401.9	17.8	
3	Roof Concrete	M25	16/03/2023	23/03/2023	150.24 X 150.26 X 150.10	22575	8.170	409.4	18.1	

* The results obtained are satisfactory as per standard requirements.

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ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/04/2023

Lab ID	:	**CP-2023-09-29-16**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	24/04/2023	150.48 X 150.99 X 150.37	22722	8.272	165.2	7.3	7.4
2	PCC	M10	17/04/2023	24/04/2023	150.94 X 150.40 X 150.89	22702	8.065	165.6	7.3	
3	PCC	M10	17/04/2023	24/04/2023	150.75 X 150.49 X 150.81	22686	8.926	172.5	7.6	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-29-16 **Date: 15/05/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	15/05/2023	150.09 X 150 14 X 150.96	22536	8.858	281 0	12.5	12.2
2	PCC	M10	17/04/2023	15/05/2023	150.75 X 150.03 X 150 53	22618	8.191	271.8	12.0	
3	PCC	M10	17/04/2023	15/05/2023	150 05 X 150.76 X 150.27	22622	8.634	272.8	12.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/04/2023

Lab ID	:	**CP-2023-09-29-16**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	24/04/2023	150.05 X 150.28 X 150.56	22549	8.513	166.6	7.4	7.4
2	PCC	M10	17/04/2023	24/04/2023	150.17 X 150.13 X 150.67	22544	8.157	170.5	7.6	
3	PCC	M10	17/04/2023	24/04/2023	150.71 X 150.46 X 150.90	22676	8.776	163.1	7.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16** **Date: 15/05/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	15/05/2023	150.16 X 150.81 X 150.39	22646	8.409	283.0	12.5	12.3
2	PCC	M10	17/04/2023	15/05/2023	150.83 X 150.68 X 150.07	22727	8.904	280.4	12.3	
3	PCC	M10	17/04/2023	15/05/2023	150.53 X 150.99 X 150.37	22729	8.209	276.8	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-29-16 **Date: 24/04/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	24/04/2023	150.97 X 150.88 X 150.50	22779	8.688	172.8	7.6	7.5
2	PCC	M10	17/04/2023	24/04/2023	150.27 X 150.98 X 150.53	22687	8.276	174.8	7.7	
3	PCC	M10	17/04/2023	24/04/2023	150.73 X 150.11 X 150.86	22627	8.814	164.5	7.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16**	**Date: 24/04/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division	
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-04-23	
Customer ID	:	PCC	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M10 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	24/04/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	24/04/2023	150.06 X 150.15 X 150.21	22532	8.209	178.5	7.9	7.8
2	PCC	M10	17/04/2023	24/04/2023	150.30 X 150.52 X 150.97	22623	8.249	171.8	7.6	
3	PCC	M10	17/04/2023	24/04/2023	150.21 X 150.47 X 150.42	22602	8.377	180.0	8.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-29-16** **Date: 15/05/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division

Agency : SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/04/2023	15/05/2023	150.11 X 150.46 X 150.87	22585	8.599	271.2	12.0	12.0
2	PCC	M10	17/04/2023	15/05/2023	150.31 X 150.05 X 150.66	22553	8.425	272.7	12.1	
3	PCC	M10	17/04/2023	15/05/2023	150.79 X 150.45 X 150.56	22685	8.256	270.6	11.9	

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End of Report*

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-09-29-16**	**Date: 29/04/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division	
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-04-23	
Customer ID	:	Flooring Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M15 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	29/04/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	01/04/2023	29/04/2023	150.88 X 150.96 X 150.11	22777	8.545	397.4	17.4	17.5
2	Flooring Concrete	M15	01/04/2023	29/04/2023	150.55 X 150.05 X 150.15	22590	8.453	405.7	18.0	
3	Flooring Concrete	M15	01/04/2023	29/04/2023	150.08 X 150.27 X 150.94	22553	8.379	385.2	17.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-09-29-16** **Date: 30-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-29-16** **Date: 31-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-09-29-16** **Date: 22-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-02-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	203	12323	21.831	1771.7	1832.7	Not less than 1800Kg/m^3
2	403	150	198	11969	22.655	1892.8		
3	399	149	202	12009	22.022	1833.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **CP-2023-09-29-16** **Date: 22-02-23**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	151	200	
2	399	152	203	
3	401	151	200	
4	401	152	202	
5	403	152	202	
6	400	151	200	
7	402	150	201	
8	401	151	203	
9	400	152	199	
10	402	152	203	
11	400	151	199	
12	404	151	202	
13	401	149	199	
14	403	152	201	
15	400	149	199	
16	401	150	203	
17	399	152	203	
18	401	152	203	
19	401	152	200	
20	401	150	201	
Average of 20	401	151	201	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 22-02-23

Lab ID	:	CP-2023-09-29-16
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Public toilet at Attur bus stop in Attur ward no -04 of yelahanka Satellite town sub division
Agency	:	SRI. C. Hema Gnanesh (Sri Krishna Constructions), No: 13/1, Attur layout, 6th Cross, Santhosh Nagar, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/51/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-23
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-02-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	102	200	8180	17.996	2199.9	2121.6	Not less than 1800Kg/m^3
2	401	101	200	8100	17.997	2221.8		
3	403	103	200	8302	16.130	1943.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	17.99	4.89	4.25	Shall not be more than 10% by mass
2	19.57	18.74	4.28		
3	18.94	18.26	3.59		

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Lab ID : **CP-2023-09-29-16** **Date: 22-02-23**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	102	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	103	199	
3	400	101	201	
4	401	99	200	
5	402	99	200	
6	400	100	203	
7	400	101	200	
8	402	100	201	
9	401	103	203	
10	400	100	200	
11	399	100	202	
12	401	101	201	
13	400	100	200	
14	400	99	201	
15	399	101	200	
16	401	100	202	
17	401	99	202	
18	404	100	199	
19	402	101	199	
20	402	100	200	
Average of 20	401	101	201	

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Lab ID : **CP-2023-09-29-16** **Date: 22-02-23**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	102	40628	166.5	4.1	4.2
2	399	103	40964	183.8	4.5	
3	400	101	40559	180.3	4.4	
4	401	99	39707	165.3	4.2	
5	402	99	39918	159.3	4.0	
6	400	100	40070	171.4	4.3	
7	400	101	40477	161.5	4.0	
8	402	100	40422	171.1	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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